

543,182

Rec'd PST/PTO 22 JUL 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
12 August 2004 (12.08.2004)

PCT

(10) International Publication Number
WO 2004/067360 A1

(51) International Patent Classification⁷: **B62D 29/04**

(21) International Application Number:
PCT/US2004/001760

(22) International Filing Date: 23 January 2004 (23.01.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/442,192 24 January 2003 (24.01.2003) US

(71) Applicant (for all designated States except US): **CLUB CAR, INC.** [US/US]; 4125 Washington Road, Augusta, GA 30907 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BATAILLE, Steven, Robert** [US/US]; 188 Morgan Bussey Road, Edgefield, SC 29224 (US). **CROW, Douglas, T.** [US/US]; 4011 Villa Lane, Martinez, GA 30907 (US). **HARDY, David, R.** [US/US]; 2101 Mims Road, Hephzibah, GA 30815 (US). **LEWIS, Gary, L.** [US/US]; 911 Burlington Drive, Evans, GA 30809 (US). **MORGAN, Paul, E.** [US/US]; P.O. Box 85, Appling, GA 30802 (US). **MULGREW, Peter, A.**

[US/US]; 2660B Havenwood Drive, Oshkosh, WI 54904 (US). **NEWMAN, Duane, E.** [US/US]; 552 Brandermill Road, Evans, GA 30809 (US). **SKELTON, Gerald, C.** [US/US]; 4120 Trenton Way, Martinez, GA 30907 (US). **STEWART, Geoff, D.** [US/US]; 821 Windmill Crossing, Evans, GA 30809 (US). **WELSH, Michael, L.** [US/US]; 1380 Waterston Drive, Evans, GA 30809 (US).

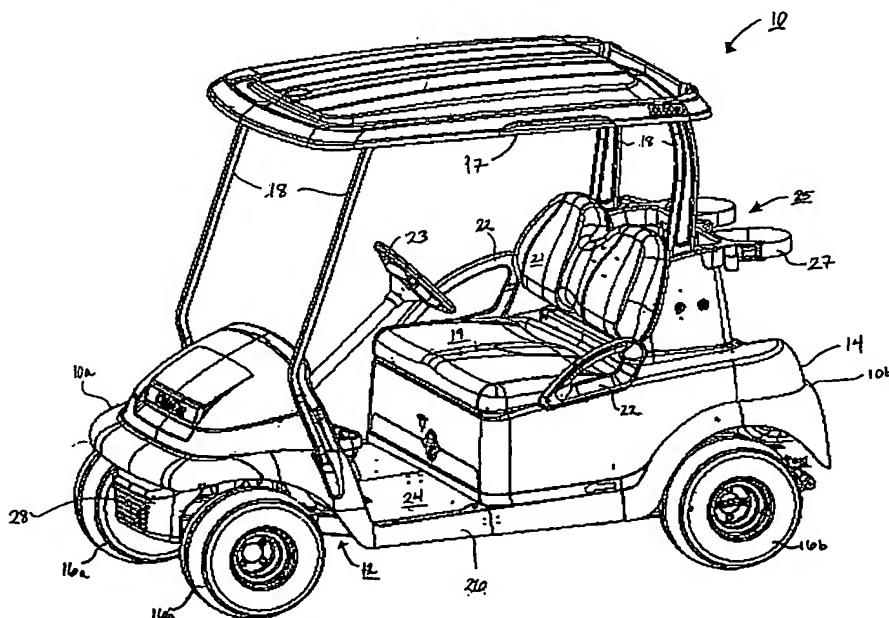
(74) Agent: **USSAI, Mark, A.**; Michael Best & Friedrich LLP, Suite 360, 3773 Corporate Parkway, Center Valley, PA 18034 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: COMPOSITE BODY FOR A GOLF CAR AND UTILITY VEHICLE



(57) Abstract: A golf car (10) or utility vehicle having a composite body (58). In some aspects of the invention, the golf car or utility vehicle has a composite body assembly that includes a front clam shell assembly (62) and a rear shell-like body (64). In other aspects, the golf car or utility vehicle includes a composite body assembly having a periphery (118) and one or more decorative body panels (106, 108), the decorative body panels being recessed inwardly relative to the composite body assembly periphery to prevent impacts to the panels.

BEST AVAILABLE COPY

WO 2004/067360 A1



GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

 Int'l Application No
 PCT/US2004/001760

 A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 B62D29/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B62D B60N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 438 546 B (LANKER WILLI) 31 July 1991 (1991-07-31) column 4, line 16 - column 4, line 55; claims 1,11-14; figure 1b	1-58,60, 61
X	WO 97/14602 A (CHRYSLER CORP) 24 April 1997 (1997-04-24) abstract	1-58,60, 61
A	US 5 238 267 A (HUTCHISON WAYNE R ET AL) 24 August 1993 (1993-08-24) abstract	1-58,60, 61
A	US 5 193 635 A (MIZUNO YUTAKA ET AL) 16 March 1993 (1993-03-16) the whole document	1-28
	----- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

2 July 2004

Date of mailing of the international search report

13/07/2004

Name and mailing address of the ISA

 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
 Fax (+31-70) 340-3018

Authorized officer

Călămar, G

INTERNATIONAL SEARCH REPORT

Int. Patent Application No.
PCT/US2004/001760

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,A	EP 1 380 496 A (ET S R L) 14 January 2004 (2004-01-14) the whole document	1-58, 60, 61

INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No

PCT/US2004/001760

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0438546	B	31-07-1991	CH 679027 A5 AT 104913 T WO 9100209 A1 DE 9090093 U1 DE 59005534 D1 EP 0438546 A1 JP 4500344 T US 5343973 A	13-12-1991 15-05-1994 10-01-1991 04-04-1991 01-06-1994 31-07-1991 23-01-1992 06-09-1994
WO 9714602	A	24-04-1997	AU 7381496 A CN 1200091 A EP 0855981 A1 TW 393412 B WO 9714602 A1 US 5964490 A	07-05-1997 25-11-1998 05-08-1998 11-06-2000 24-04-1997 12-10-1999
US 5238267	A	24-08-1993	AU 658190 B2 AU 1818592 A CA 2069970 C DE 59202918 D1 DK 518201 T3 EP 0518201 A2 ES 2074766 T3 FI 922690 A ,B, NO 922317 A	06-04-1995 17-12-1992 28-02-1995 24-08-1995 27-11-1995 16-12-1992 16-09-1995 15-12-1992 15-12-1992
US 5193635	A	16-03-1993	JP 3109126 A	09-05-1991
EP 1380496	A	14-01-2004	EP 1380496 A1 WO 2004005117 A1	14-01-2004 15-01-2004